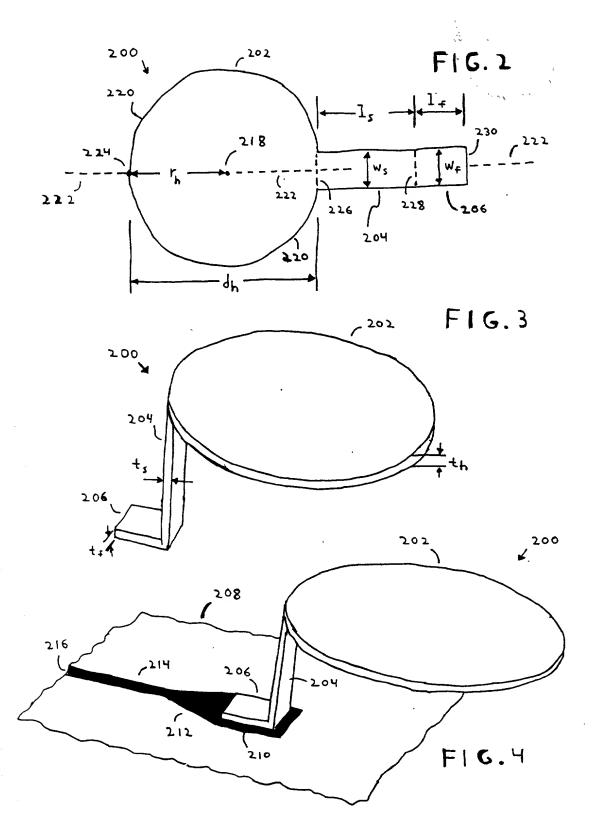
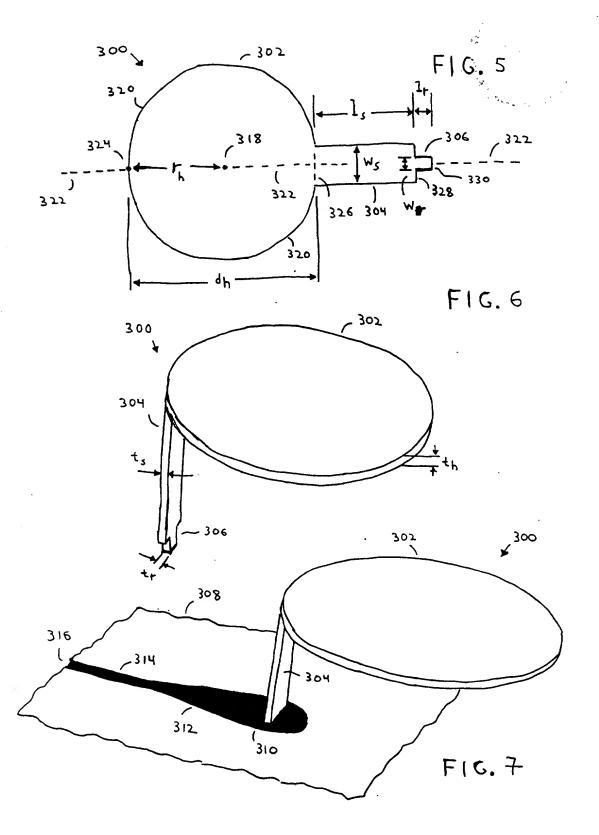
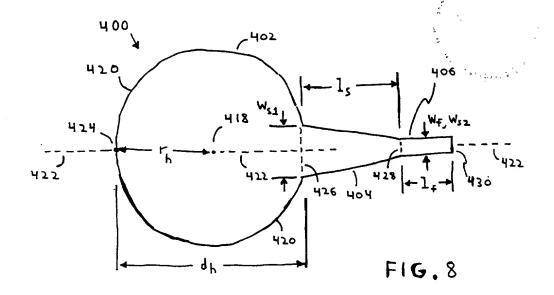


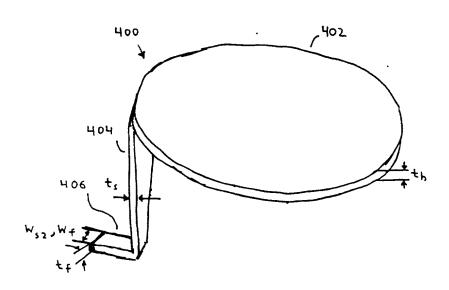
FIG. 1 PRIOR ART

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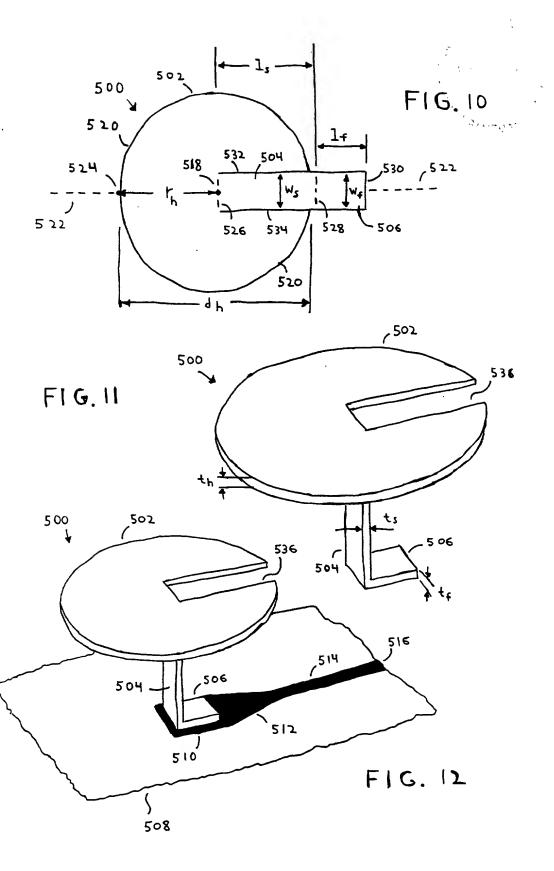


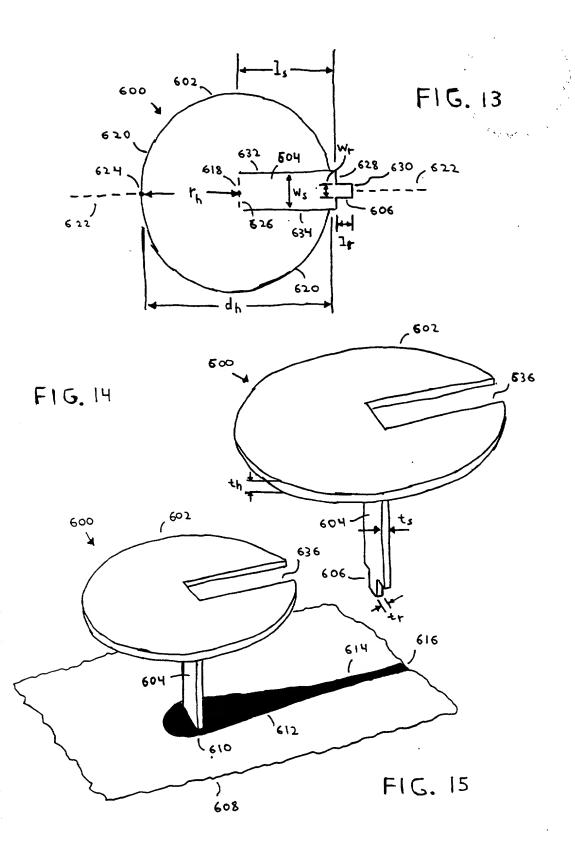


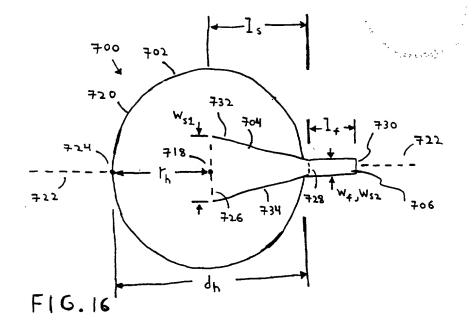


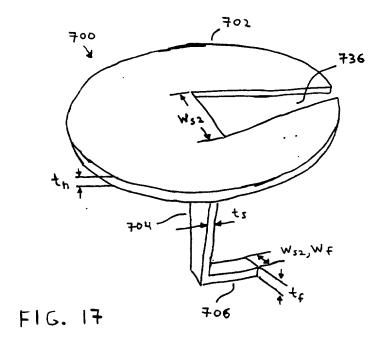


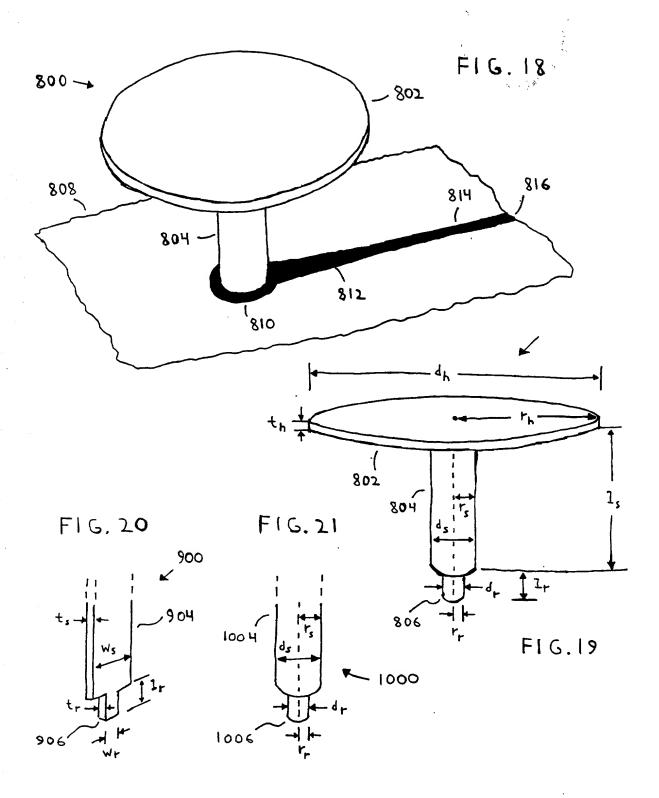
F16.9

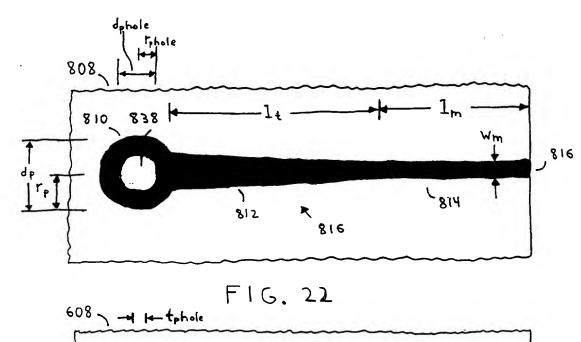


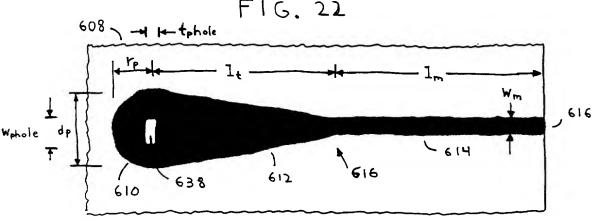












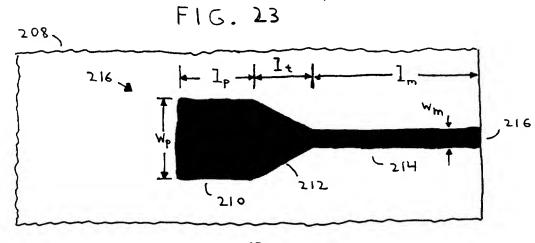
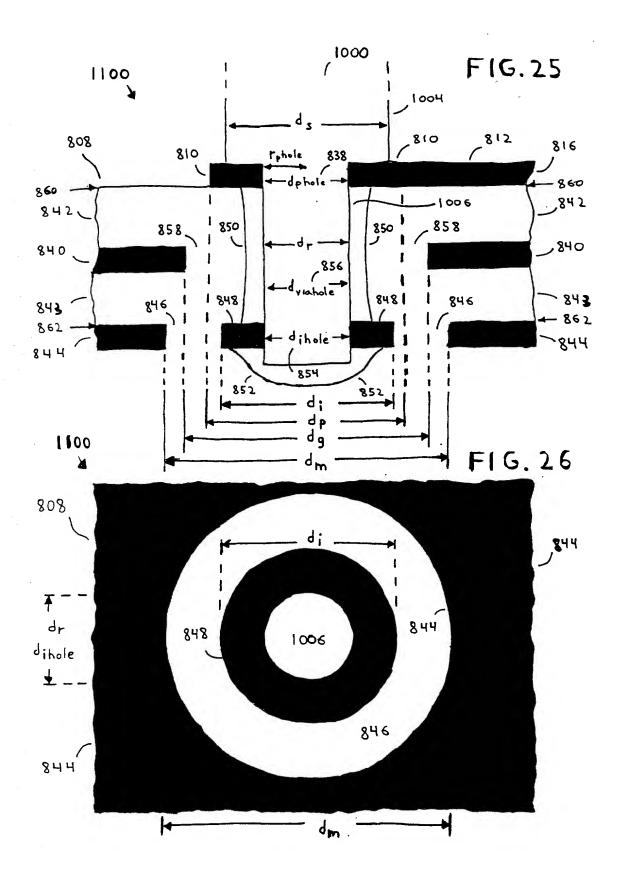
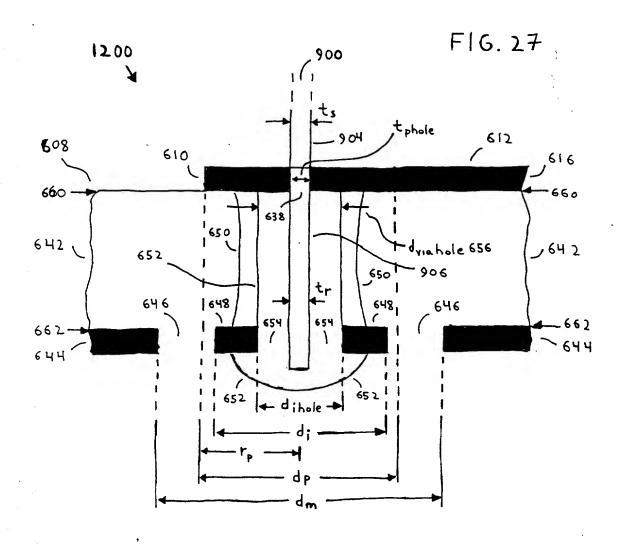
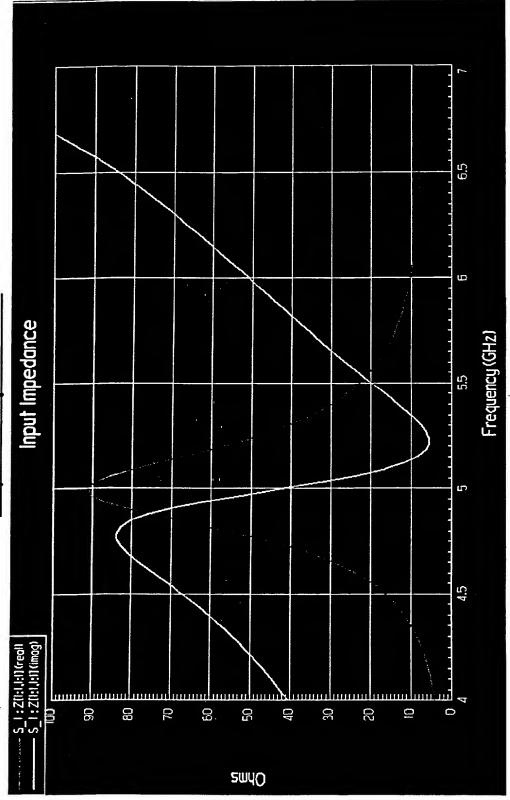


FIG. 24





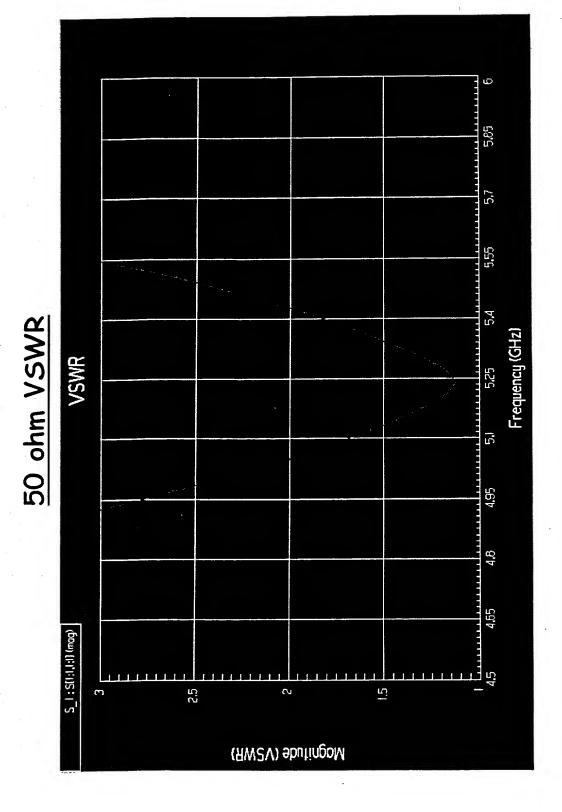
Input Impedance



F16.28

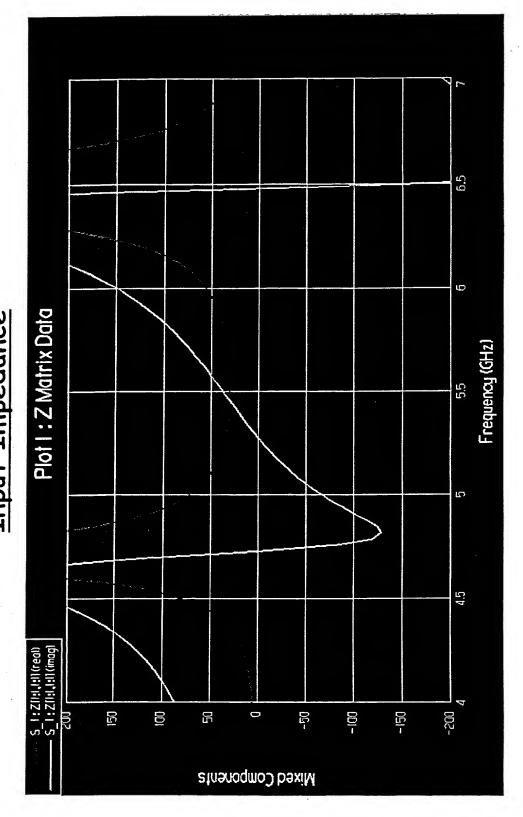
50 ohm VSWR Frequency (GHz) VSWR 5.5 4.5 . S\_1:S(1:1,1:1) (mag) Magnifude (VSWR)

F16.29

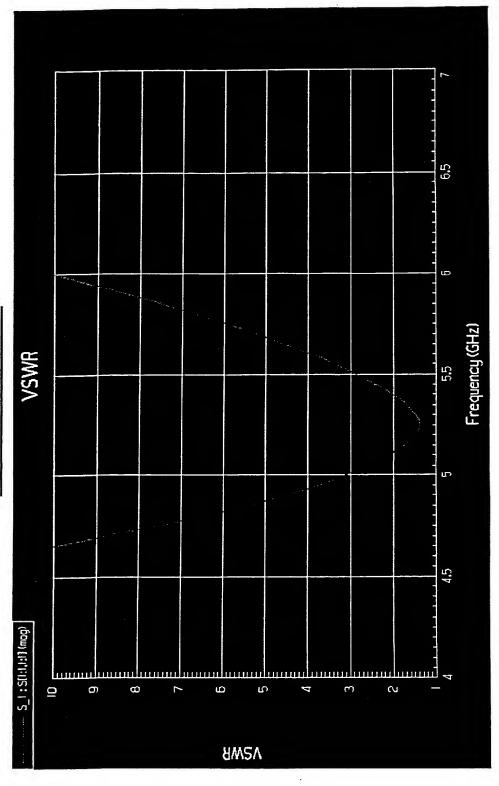


F16.30

Input Impedance

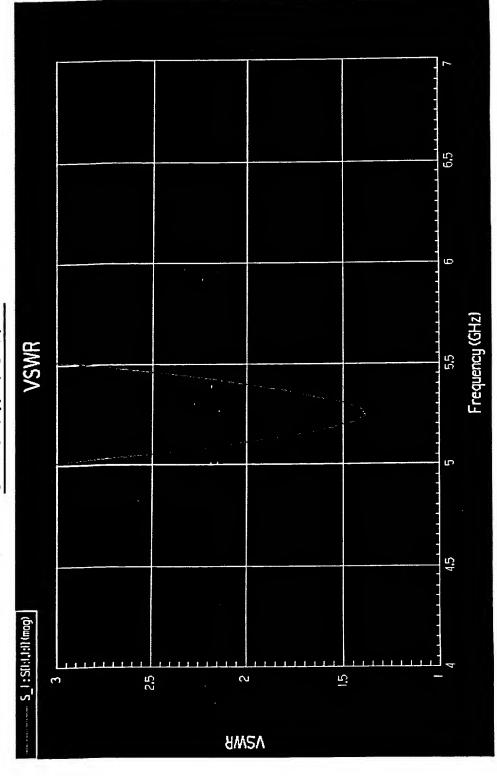


F16.31



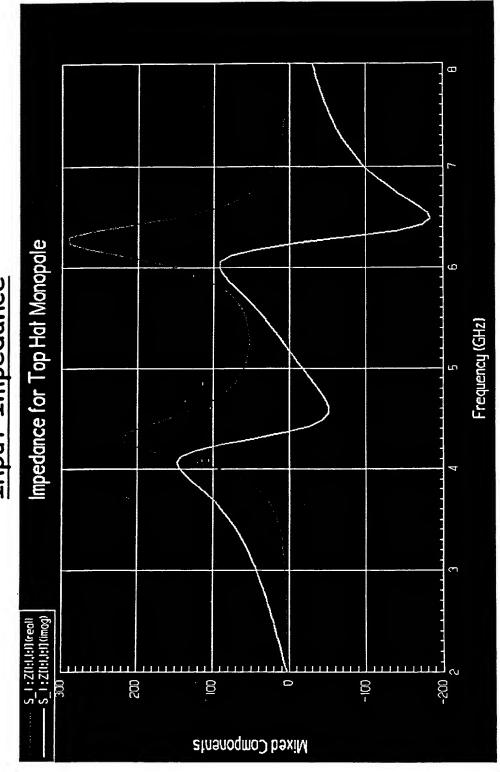
F16.32

50 ohm VSWR



F1 G. 33

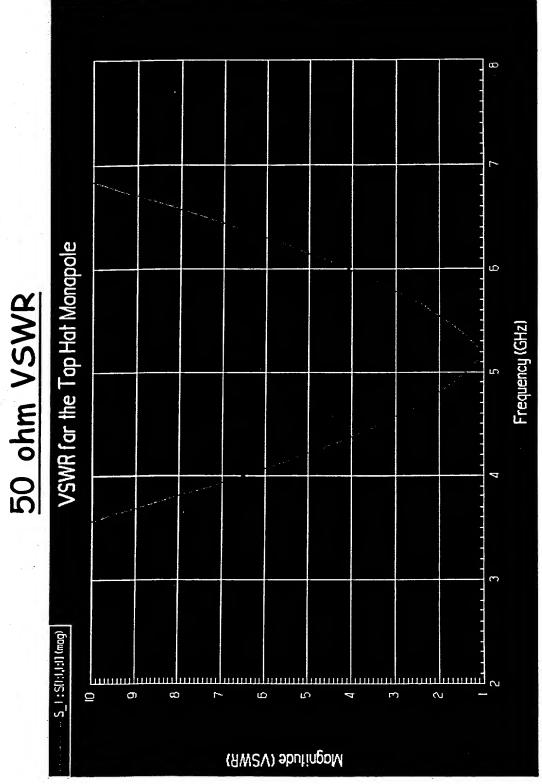
Input Impedance



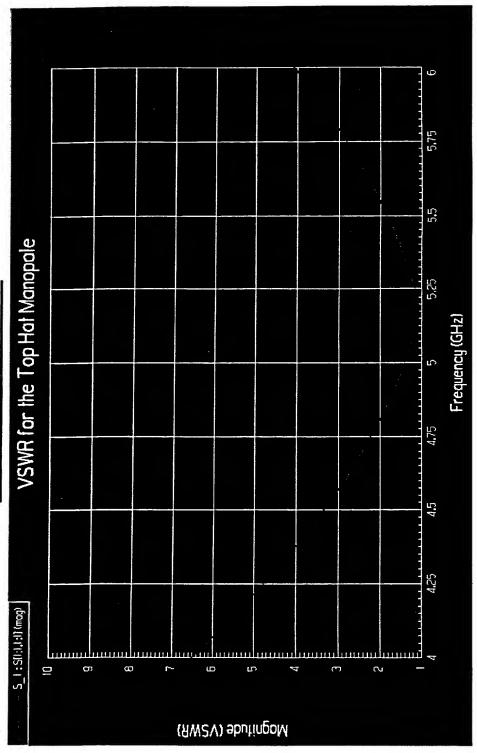
F16.34

5.75 5.5 Input Impedance Impedance for Top Hat Manopole 5.25 Frequency (GHz) 4.75 4.25 -100 -50 150 100 50 Aixed Components

F16.35



50 ohm VSWR



F16.37